Aerospace Engineers

BRIAN CARTER

carte077@bama.ua.edu
7102 Harperwood Street
Northport, AL 35473
(205)347-8366 or (205)339-5045

EDUCATION

Bachelor of Science; Aerospace Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation Date: May 2008   GPA: 3.85 out of 4.00

Tuscaloosa County High School, Northport, Alabama   May 2003
Advanced Diploma
Valedictorian   GPA: 4.03 out of 4.00

COMPUTER SKILLS

Proficient in Word Perfect, Microsoft Word, Power Point, AutoCAD, HTML, Windows 95-XP, Internet browsers such as Netscape and Microsoft Internet Explorer
Familiar with Microsoft Excel

WORK EXPERIENCE

Worked as ASA Softball Umpire, West Alabama Umpires Association, Tuscaloosa, Alabama, May2000-present

ACTIVITIES

The University of Alabama, Tuscaloosa, Alabama
- Computer Based Honors Program
- University Honors Program,
- American Institute of Aeronautics and Astronautics
- Honors Program Student Association
- HPSA Intramural Flag Football team

Tuscaloosa County High School, Northport, Alabama
- Served as Mu Alpha Theta, President
- National Honor Society
- National Beta Club
- National Latin Honor Society
- Served as Key Club Secretary
- Member of 2002 state championship track team
- Captain of high school cross country team
- Finished 2002 Mercedes Marathon, Birmingham, AL
- Science Olympiad participant
- Leadership Conference at Mercedes Benz

AWARDS AND HONORS

The University of Alabama, Tuscaloosa, Alabama
- Recognized as Presidential Scholar
- Awarded Engineering Scholarship and Engineering Leadership Scholarship

Tuscaloosa County High School, Northport, Alabama
- Named Outstanding Senior
- Named Mr. Citizenship of Tuscaloosa County High School
- Recognized for Perfect Attendance throughout high school

SURYA PRASANNA K. CHODIMELLA

E-mail: chodi001@bama.ua.edu

308 Grace Street, Apt #347
Tuscaloosa, Alabama, USA 35401
Phone: (205) 657 2515 (Cell)

OBJECTIVE

Seeking a challenging position as a Finite Element Engineer, which requires design/ development, analysis, utilizing my strong analytical and problem solving skills.

EDUCATION

Master of Science in Aerospace Engineering Science & Mechanics, May 2003 (Exp.)   **GPA – 4.0/4.0**

University of Alabama, Tuscaloosa, AL

Master of Science in Industrial Engineering, Dec. 2002 (Exp.)   **GPA – 4.0/4.0**

University of Alabama, Tuscaloosa, AL

Bachelor of Science in Mechanical Engineering. Aug '98
Andhra University, India

EXPERIENCE SUMMARY

Research Assistant, University of Alabama   **May 01-present**
- Conducting High Velocity Impact Simulation of spot-welded structures in automobiles using Finite Element Analysis Packages – **Hypermesh / Patran** as Pre-Processor/ Post-Processor and **Abaqus** as Solver
- Designed the test fixture and assisted in impact testing of spot welded joints
- Conducting finite element analysis of various structures
- Currently teaching a course in Mechanics of Materials Laboratory (AEM 251)

Graduate Assistant, University of Alabama   **Aug 00-present**
- Conducting Research to identify significant factors for success of Risk Management for Marshall Space Center, NASA, Huntsville
- Supervised a course in Safety Engineering for Graduates & Undergraduates
- Conducting labs on Statistical Software Package, MINITAB

Designer, National Ship Design & Research Center, Visakhapatnam, India   **Nov 98 - Jul 00**
                    (www.nsdrc.com)
- Conducted stress analysis on Offshore Platforms, Ships Structures and Reactors using Finite Element Analysis (FEA) Package "Numerically Integrated Elements for System Analysis (NISA)"
- Designed and Analyzed Composite Rudder for Naval Vessel
- Conducted Vibration Analysis for Bearings and Couplings in the Ore Handling Complex of Visakhapatnam Port Trust
- Involved in design of Dredger and Passenger Vessel. Responsibilities included designing of ships' machinery room, conducting vibration analysis of machinery, propeller shaft and rudder
- Participated in Quality Management of Organization by conducting internal audits
- Worked on six-member team to release Maritime Directory for first time in India

COMPUTER SKILLS

Finite Element Analysis Tools: ABAQUS (Static & Dynamic Structural Analysis), PRO/E, PATRAN, HYPERMESH, ANSYS, NISA, and FORAN
Languages: C/C++ and Fortran
Operating Systems: UNIX and Windows 98/NT/2000
Applications: AutoCAD (2000, R-14), Matlab, Arena, MS Office

SKILLS

- Experience proven ability to manage multiple projects and coordinating specifications tasks.
- Design/ Development, Analysis (both manual and FEA), of Structures and complex Mechanical Equipment. Management of engineering team
- Theoretical background in Structural Mechanics, Finite Element Method, Theory of Elasticity, Plasticity, Composites and Dynamics

RELEVANT COURSES

Finite Element Analysis
Theory of Structures
Experimental Mechanics
Theory of Elasticity
Theory of Plasticity

Theory of Composites
Engineering Statistics
C, C++,
Information Processing
Fortran

ACADEMIC PROJECTS

- Conducted the Static and Dynamic Analysis of an Underwater Weapon using Finite Element Analysis
- Developed applications to find the Natural Frequency of the Underwater Weapons in C language

SUMMER INTERN

Naval Science & Technological Labs, Visakhapatnam, India **Summer 1997**
- Assisted senior engineers and scientists in data collection
- Analyzed the acoustic properties of a building
Hindustan Shipyard Ltd., Visakhapatnam, India **Summer 1995**
- Studied the structural details of ships
- Analyzed the bulkheads and load bearing structures for structural strength by Finite Element Analysis

HONORS

- William Jordan Fellowship, University of Alabama (2002)

- Alpha Pi Mu Industrial Engineering Honor Society

- Graduate Research Assistantship, University of Alabama (2000, 2001, 2002)

PUBLICATIONS

1. P. K. Chodimella, M. E. Barkey, and S. E. Jones. "High Velocity Impact Simulation of Spot Welded Joints." Abstract and Animated Computer Simulation accepted to SC2001 (Supercomputer Conference), November 10-16, Denver, Colorado, 2001. Demonstration to be made by the Alabama Supercomputer Center.

2. P. K. Chodimella, Paul S. Ray, B. Pattabhiraman, and R. Srinivasan. "Risk Analysis Tools Successful in Contemporary Industries". Presented at the XVI Annual International Occupational Ergonomics and Safety Conference, 2002.

REFERENCES   Available upon request

JENNIFER J. KIMMETT

P.O. Box 10222
College Station, TX 77842
(979) 485-8115
jenniferkimmett@hotmail.com

Education

Texas A&M University
MS: Aerospace Engineering
Expected Graduation - May 2002
Cumulative GPA 3.812/4.0

The University of Alabama
BS: Aerospace Engineering
Graduation - May 2000
Cumulative GPA 3.9/4.0

Passed the Fundamentals of Engineering Exam (FE), Spring 1999

Experience

August 2001 -
Present

National Defense Science and Engineering Graduate Fellowship (NDSEG)
American Society for Engineering Education (ASEE)
Conducting research for my thesis.
Thesis topic: Autonomous Aerial Refueling of UAVs

May 2001 -
August 2001

Graduate Assistant Research (GAR)
Texas A&M University, College Station, TX
Developed and implemented lateral beam guidance capture and hold autopilot for the Commander 700 six degree of freedom flight simulator.

August 2000-
May 2001

Graduate Assistant Non-teaching (GANT)
Texas A&M University, College Station, TX
Graded bi-weekly design reports for the senior aircraft design class.
Graded homework and tests for aerospace controls class, and tutored students outside of class.

May 2000 –
July 2000

Summer Engineering Internship (Secret Clearance)
Sparta Inc., Huntsville, AL
Developed GUIs using Visual C++ for data analysis, created missile models in MATLAB Simulink, ran various missile simulations and plotted results.

May 1999 –
August 1999

Summer Engineering Internship
Sparta Inc., Huntsville, AL
Worked on missile models in MATLAB Simulink, developed GUIs in MATLAB to analyze results from the models, and evaluated the capabilities of MATRIX X System Build.

Computer Skills

C/C++ - Visual C++ 6.0 with experience in MFC, FORTRAN, MS Office, MATLAB, MATRIX X, Mathcad, AutoCAD 2000, Dreamweaver, HTML

**Honors/
Activities**

Private Pilot License (June 30, 1996)
National Defense Science and Engineering Graduate Fellowship (NDSEG)
Zonta International Amelia Earhart Fellowship
Regents Fellowship from Texas A&M
AIAA Undergraduate Foundation Scholarship
American Institute of Aeronautics and Astronautics (AIAA), Officer - President
Sigma Gamma Tau (National Aerospace Engineering Honor Society), Member
Tau Beta Pi (National Engineering Honor Society), Officer - Cataloger
Capstone Engineering Society Outstanding Senior Award
99's (International Organization of Women Pilots), Member

References

Available upon request

Daniel R. Lewis

Lewis031@bama.ua.edu

Current Address:
900 Hargrove Road Apt#74
Tuscaloosa, Alabama 35401
(205) 758-9590

Permanent Address:
2308 Applewood Drive
Birmingham, Alabama 35215
(205) 854-0790

Objective
To obtain an entry level position in the aerospace industry performing research in aerodynamics and a future in wind tunnel testing.

Education
Bachelor of Science: Aerospace Engineering
The University of Alabama, Tuscaloosa, Alabama
Minor: Computing Technology and Applications
Expected Graduation: May 2004
Cumulative GPA 3.3/4.0 AE GPA 3.43/4.0

Experience
Professors Assistant, January 2003-September 2003
The University of Alabama, Tuscaloosa, Alabama
Worked with subsonic and supersonic wind tunnels. Designed lab experiment for Aerodynamics I class. Installed a pressure scanner and an eight channel strain-gage system. Ordered motors for the six-component strain gage balance, balance calibrator, and three dimensional traverse.

Delivery Driver, Summer 2001
Carryout Cab, Birmingham, Alabama
Delivered restaurant food. Interacted with customers.

Computers
C/C++, FORTRAN, LabVEIW, AutoCAD, MS Office, Windows, html, ALGOR, Matlab

Hobbies
R/C airplanes, model trains, fishing, music, computers, football

Accomplishments
American Institute of Aeronautics and Astronautics
Academy of Model Aeronautics
Engineering Day Tour Guide
Dean's List

References
Available upon request

Kazuhiro Nishita

4395 Heathersage Circle
Tuscaloosa, AL 35405
(205) 507-0262
e-mail: k@nishita.com

EDUCATION

Ph.D.: Aerospace Engineering and Mechanics
The University of Alabama, Tuscaloosa Alabama
Expected Graduation: May 2004
Cumulative GPA 3.74/4.0
Specialty: Application of Artificial Immune System for Control Problems

Master of Science: Engineering Science and Mechanics
The University of Alabama, Tuscaloosa Alabama
Graduated: August 1999
Cumulative GPA 3.67/4.0
Thesis: Software Simulation of Fuzzy Controller Tuning:
Comparing a Genetic Algorithm to a Neural Network Approach

Bachelor of Science: Aerospace Engineering
The University of Alabama, Tuscaloosa Alabama
Graduated: December 1994
Cumulative GPA 2.98/4.0

EXPERIENCE

Graduate Research Assistant
- The University of Alabama, Department of Aerospace Engineering and Mechanics 1995-2003

Web Site Development
- The University of Alabama, Department of Aerospace Engineering and Mechanics 1995
- The University of Alabama, Department of Aerospace Engineering and Mechanics, Intelligent Control Lab 1995
- CynapSys, LLC, Birmingham, Alabma 1999
- Flexible Intelligence Group, LLC, Tuscaloosa, Alabama 1997
- Crownmaster's Inc. Okayama, Japan 2002-2003

Software Development
- Nviewlib: Graphic tool for Windows programmer. This work is published in Borland C++ Builder How-To, Chapter 9, Waite Group Press (1997) and C't (Magazin für computer technik), Verlag Heinz Heise GmbH & Co KG, German (1997) and various internet sites.
- EasyZip: Self extracting zip file maker. This work is published in Vector Pack Project, Japan Vector Software Co., Japan (1997-1999) and various internet sites.

- Control to RTF: Visual component lib to convert control to RTF File. This work is published in various internet sites.
- FlexTool (LNN)™: Neural Networks software. Commercially sold from Flexible Intelligence Group, LLC.
- PondMonitor™: Aquaculture water quality monitoring software for Royce Oxygen Analyzer. Commercially sold to AUTOHAND, Inc. from Flexible Intelligence Group, LLC.
- FlexTool (RS)™: Retirement system prediction.
- FlexTool (FS)™: Fuzzy Logic software.

Software Consultant
- ACTOGA Project: Air Force Fighter flight formation optimization using Genetic Algorithms project under Unix system. This project was funded by the USAir Force , 1996
- Consulting AI software development for Flexible Intelligence Group, LLC, 1995-1998
- Consulting to develop an aquaculture water quality monitoring software using Royce Oxygen Analyzer for AUTOHAND, Inc, Tuscaloosa, Alabama, 1997
- Consulting software development for CynapSys, LLC, 1999-2003.
- Virtual D.E.R.™: Aeronautical structural analysis software which is commercially available from CynapSys, LLC, 1999-2003.

Language Translation
- Tuscaloosa Steel, Inc 1995
  Consulting and Translation of Japanese Engineering blueprints for steel mill expansion project into English.

COMPUTERS

Authored and consulted for developing numerous computer codes. Many of these codes have focused on the PC MS Windows software development and Internet applications. Numerous other codes developed for modeling engineering systems as a graduate research assistant at the University of Alabama. Languages include: ASP, HTML, CGI, Coldfusion, C, C++, Delphi (Pascal), Visual Basic, and FORTRAN, Matlab Script.

HONORS

Graduate Council Research Fellowship at University of Alabama, Summer 2000
Graduate Council Research Fellowship at University of Alabama, 2000-2001
Sigma Gamma Tau, The National Aerospace Engineering Honor Society, 1999
AIME Fellowship, The University of Alabama, 1997-1999
Dean's List, The University of Alabama, 1994
Phi Eta Sigma, Freshman Honor Society, 1991
President's List, The University of Alabama, 1991
Japan Mathematical Science Foundation Fellowship, 1991-1994

PUBLICATIONS

TECHNICAL PAPERS (JOURNAL)

- **Robustness Analysis of Neural Networks with an Application to System Identification**, (Authors: K. KrishnaKumar & K. Nishita), AIAA Journal of Guidance, Control, and Dynamics Volume 22, Number 5, Page 695, September-October, 1999.
- **A comparison of fuzzy and neural network modeling for separation equipment**, (Authors: Karr, C. L., Weck, B., & Nishita, K.), *Fluid Particle Separation Journal* (1997 accepted).
- **Neural network-based tuning of fuzzy systems.** (Karr, C. L., & Nishita, K.)Report for NASA Langley Research Center, 1-43 (1997).

TECHNICAL PAPERS (CONFERENCE)

- **Intelligent Systems in Aerospace Applications**, (Authors: K. KrishnaKumar, Y. Hachisako and K. Nishita), Japan Society for Aeronautical and Space Sciences(JSASS) 14th International Sessions in 38th Aircraft Symposium, Oct 11, 2000, Sendai, Japan
- **Genetic-Fuzzy Controller for Truck Trailer Backer-Upper**, (Authors: Vongpaseuth, T. and Nishita, K), Society of Women Engineers 1998 National Conference, June 16-20, 1998, Houston, TX
- **Robustness Analysis of Neural Networks with an Application to a Neuro-controller Problem**, (Authors: K. KrishnaKumar and K. Nishita), AIAA 96-3852, AIAA Guidance and Control Conference, San Diego, (1996).
- **BORN--Bama Optimized Recurrent Neural Networks**, (Authors: K. KrishnaKumar and K. Nishita), WCNN'96, San Diego, (1996).
- **Robustness of Recurrent Neural Networks**, (Authors: K. KrishnaKumar and K. Nishita), WCNN'96, San Diego, CA, (June 1996).
- **A comparison of fuzzy and neural network modeling for mineral processing equipment**, (Authors: Karr, C. L., Weck, B., & Nishita, K.), Proceedings of the Annual Meeting of the Society for Mining, Metallurgy, and Exploration (preprint number 97-65), Denver, CO. (1997).

EDITED BOOK CHAPTERS

- **IMMUNIZED ARTIFICIAL SYSTEMS – CONCEPTS AND EXAMPLES**, (Authors: K. KrishnaKumar & K. Nishita), GENETIC ALGORITHMS FOR OPTIMISATION IN AERONAUTICS AND TURBOMACHINERY, von Karman Institute for Fuluid Dynamics, Belgium, MAY, 2000.
- **SOFTWARE SIMULATION OF FUZZY CONTROLLER TUNING: COMPARING A GENETIC ALGORITHM TO A NEURAL NETWORK APPROACH**, (Author K. Nishita), Master Thesis, The University of Alabama, (1999).
- **Tuning BAMA Optimized Recurrent Neural Networks Using Genetic Algorithms**, (Author K. Nishita), Industrial Applications of Genetic Algorithms, Chapter 11, CRC Press, L.L.C., (1999).

REFERENCES   Available upon request

ELIZABETH HEATHER PATTERSON

1122 7th Ave. Apt. #1, Tuscaloosa, AL 35401
EHeatherP@aol.com   (205)752-2865

EDUCATION

BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING	YEARS ATTENDED: 1999-PRESENT
The University of Alabama	Tuscaloosa, Alabama

Graduation Date: May 2004
Cumulative GPA: 3.10
Major GPA: 3.21

Society of Women Engineers 1999-Present
  Current President
  2002-2003 Vice President of Outreach
  Secretary Fall Semester 2001
  Attended Regional Conference 2001, 2002
  Attended National Conference 2002, 2003
  Volunteer at 2003 National Conference
The American Institute of Aeronautics and
  Astronautics 1999-Present
  Current Treasurer
  Attended Regional Student Conference 2003
Dean's List - Spring 2000

National Society of Collegiate Scholars
  Community Service Committee 2001
The Gamma Beta Phi Society
  Distinguished Member 2001
Wesley Foundation Active Member
The University of Alabama's Women's Leadership
  Institute Mentor Program
William E. Crowder Scholarship 1999, 2001
Aerospace Engineering and Mechanics
Departmental   Scholarship - 2000, 2003
UA SWE Most Active Sophomore Award

Alabama Space Grant Consortium Scholarship
2002

SKILLS

Microsoft Office (Word, Excel, PowerPoint), WordPerfect Office, Matlab, Maple, C++, Fortran, AutoCAD, Algor,
Data Collection and Reduction in Terminal Ballistics Research,

PUBLICATIONS

Patterson, E. Heather, Torres, Karen L. AAn Experimental Study of Length and Diameter Effects in OFHC
  Copper Cylinders With the Taylor Impact Test@, Proceedings of AIAA Student Conference, Kill Devil Hills,
  NC, March 27-28, 2003.
Torres, Karen L., Patterson, E. Heather. AHigh Strain Rate Material characterization of High Strength Steels@,
  Proceedings of AIAA Student Conference, Kill Devil Hills, NC, March 27-28, 2003.

EXPERIENCE

STUDENT RESEARCH ASSISTANT FOR DR. STANLEY E. JONES, 2000-PRESENT
Impact and Penetration Mechanics Laboratory
Department of Aerospace and Mechanics, The University of Alabama
  Responsibilities range from secretarial duties, computer maintenance, data collection, and data reduction.
  Principal research topics are Taylor Testing for the purpose of studying material properties, and penetration tests
  for studying both projectile strength and performance. Data analysis techniques include detailed data collection
  from lab scale testing as well as data reduction using theoretical and mathematical models.

COUNSELOR AT U.S. SPACE CAMP, SUMMER 2001, SUMMER 2002, SUMMER 2003

U.S. Space and Rocket Center in Huntsville, AL

Responsibilities were to provide a safe and well disciplined environment for groups of approximately sixteen middle school aged children attending camp. This required dealing with scheduling, discipline problems, interacting with parents, teaching various aspects of aerospace technology and history, and training campers for simulated Space Shuttle missions.

SARAH PHILYAW
Email address: phily002@bama.ua.edu

CAMPUS ADDRESS:
The University of Alabama
Bryce Lawn Apts. 202/405
Tuscaloosa, Al. 35401
205-347-7395

PERMANENT ADDRESS:
1544 Slaughter Rd.
Madison Al. 35758
256-722-0982

EDUCATION

The University of Alabama in Tuscaloosa
Degree: Bachelor of Science, May 2003
Major: Aerospace Engineering and Mechanics
Major GPA: 3.17/4.00

University of Alabama in Huntsville
Core Curriculum Coursework
No degree obtained

CLASS PROJECTS

-Aircraft Performance, Fall, 2001. Wrote a program in C++ that finds the takeoff range on a runway for a plane with certain characteristics at a specified altitude.
-Structural Design/Testing, Spring 2002. Helped design, fabricate, and test a tapered beam holding up to 10,00lbs.

RELEVANT COURSEWORK

-Fluid Mechanics
-Aerodynamics I,II
-Thermodynamics
-Dynamics of Flight

-Aircraft Performance
-Structural Design and Testing
-Aircraft Structures
-Propulsion

-Algorithm Development(C++)
-Senior Design

COMPUTER SKILLS

C, C++, and Fortran computer languages
Microsoft 98/95, Microsoft Excel, Microsoft Word, and Microsoft Power Point
Solid Edge, Matlab, Maple V

EXPERIENCE

Researcher and Assistant Engineer   Summer, 2000
Aerospace Engineering Department, The University of Alabama
-Worked with Microsoft Excel by using the database to plug in formulas
-Conducted reception work
-Helped perform research and wrote documentation on a software based on Prandtl's Lifting Line Theory.

Tutor   Fall 2001-Spring 2002
Center for Teaching and Learning, The University of Alabama
-Tutor for Calculus I,II,II, Linear Algebra, Differential Equations, Calculus based Physics

HONORS AND ACTIVITIES

University of Alabama in Tuscaloosa
Assistant Disc Jockey for WVUA
Dean's List, Fall 2000

The University of Alabama in Huntsville
Honor's Scholar List
Chi Omega Sorority

AIAA student membership

CHRISTOPHER M. QUARLES

Current Address: Permanent Address:
814 11th Avenue, Apt. 20   118 Cooper Avenue
Tuscaloosa, Alabama 35401   Trussville, Alabama 35173
(205) 349-2804   (205) 655-3201
E-mail: Junecq@aol.com

Professional Goal

To obtain employment with a major aerospace company, and enhance my skills as an Engineer to eventually lead a design team on a major project.

Education

Bachelor of Science: Aerospace Engineering
Minor: Business Management and Math
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: December 2004
Cumulative GPA: 2.54/4.0 AE GPA:2.78/4.00

Relative Course work : AEM 368 Dynamic Systems and Controls I and AEM 469 Astrodynamics

Experience

AssociateMay 1998 -July1999, summer 2000/'01
K-Mart, Sporting Goods, Trussville, Alabama
Assisted customers, stocked shelves, supervised Sporting Goods personnel, assisted with security
Assistant, September 2002-May 2003,
University Of Alabama, Tuscaloosa, Alabama
Wind Tunnel Restoration
Aerospace Labs, accessing repairs and replacement of instruments as needed
Research, June 2003-Present
Dr Mike Polites, University of Alabama, Tuscaloosa, AL
Spacecraft Stabilization in a box using hard-core, low powered Magnetic torquers.
Paper, Co-Author: "Test Results of Low-Power Magnetic Torquers for Spacecraft Attitude Control"

Computer Skills

Microsoft (MS) Visual C ++, MatLab, Windows 3.1-XP, DOS 5.0-6.0, AutoCAD, MS Excel, Word, Works, PowerPoint, and MS Internet Explorer

Honors/ Activities

Dean's List
American Institute of Aeronautics and Astronautics (AIAA) Officer: EEC Representative 2003-2004
James Fitts Alston Scholarship
Hewitt Trussville PTA Scholarship
University of Alabama "Million Dollar Band", 4 years

References

Available upon request

BERNARD T. SAM, EI

1032 Chatham Pines Circle, Apt. 212 ♦ Winter Springs, FL 32708 ♦ 321.263.5439 ♦ berns871@cs.com

OBJECTIVE To obtain a Coop or entry level position in the field of Mechanical or Aerospace Engineering.

EDUCATION **UNIVERSITY OF CENTRAL FLORIDA**   Orlando, FL
Master of Science in Mechanical Engineering   May 2005
Design of mechanical systems and applications
GPA: 4.0/4.0

Bachelor of Science in Aerospace Engineering   May 2002
GPA: 3.1/4.0

EXPERIENCE **Control Center LLC**   Orlando, FL
ENGINEERING ASSISTANCE COOP   September 2000-August 2001; January 2002-Present

- Assist with Product Line Planning to Significantly Reduce Production Costs
- Provide Flow Calculations for Meter Tube Product Line
- Serve as Communications Link for Project Manager
- Edit AutoCAD Drawings
- Provide Project Documentation to Customers
- Assist with Quality Control Documentation to Improve Customer Satisfaction and Product Quality

Senior Design Project, University of Central Florida
ELECTRIC AIRPLANE   August 2001-May 2002

- Designed an Electric Airplane to Carry a Specified Volume of Material in the Shortest Amount of Time
- Assisted in Designing the Configuration of Electrical Components
- Worked in a Team Environment
- Learned Design Techniques, Time Management, and how to Plan and Schedule
- Contacted Vendors, Requested Quotes, Developed Parts Lists
- Raised Money to Fund Project
- Created Reports, Charts, Graphs, and Presentations in Microsoft Word, Excel, and PowerPoint

SKILLS *Computer:* Microsoft Office, C Programming, AutoCAD, Matlab with Simulink, Mathcad, FE-Sizer, IDEAS, ProEngineer, experience with engineering graphics packages and engineering computational packages.
Language: Speak, read, and write Spanish fluently.

ACTIVITIES CLUBS AND ORGANIZATIONS
- American Institute of Aeronautics and Astronautics
  - Recording Secretary: 2001- 2002
  - Electric Airplane Competition Team Captain: 2001- 2002
  - Electric Airplane Competition Team Member: 2000- 2001
  - Experimental Aircraft Association- Air Show Volunteer
  - Mentor for incoming freshmen members
  - Engineering College Orientation Volunteer
- Society of Women Engineers
  - Historian: 2002-2003
- American Society of Mechanical Engineers
- Astronomy Society
  - Robinson Observatory Public Relations Volunteer
- Biomedical Engineering Society
- University of Central Florida Alumni Association
- College of Engineering & Computer Science Alumni Committee Member

VISHNU K SINGH

407 Grace Street, Apt. 134   Phone: (205) 454 6100
Tuscaloosa, AL 35401   Email:singhvishnu@hotmail.com

Objective: To acquire a position requiring innovative, challenging employment that will utilize my education and professional skills in Evolutionary Computation, Simulation and Control of aircraft and space vehicles and other aerospace engineering-related field.

Education:

Master of Aerospace Engineering   June 2003
The University of Alabama, Tuscaloosa, AL   **GPA:** 3.44/4.0

Bachelor of Instrumentation and Control Engineering   July 2000
Pune Institute of Computer Technology, The University of Pune, Pune, India   **GPA:** 3.84/4.0

Bachelor's Projects:
Working model of Bottling Plant using a PLC.
Designed a working model of a Bottling Plant, using optical sensors and timers. The control logic was implemented by a programmable logical controller.

Computer Skills:

Programming Languages: C, C++, Matlab, 8085/8086 Assembly, PLC programming
Operating Systems: DOS, Windows 9x/NT/2000/XP

Work Experience:

Teaching Assistant   January 2003-Present
Department of Aerospace Engineering, The University of Alabama, Tuscaloosa, AL
 Taught Dynamics to juniors. Provided one to one assistance and evaluated their performance.
Graduate Assistant   August 2002-December 2002
Department of Aerospace Engineering, The University of Alabama, Tuscaloosa, AL
 Instructed Aerodynamics II to juniors and seniors. Helped them develop a proper understanding of the subject, by providing individual instruction.

Master's Research   July 2001- August 2003
Department of Aerospace Engineering, The University of Alabama, Tuscaloosa, AL
 1. Implemented Genetic Algorithm in optimize the position of jets on the wings of a Hypersonic aircraft for Roll control.
 2. Implemented Genetic Algorithm in Sonic Boom Mitigation. The main object of the thesis was to develop a search mechanism to find an area distribution of an aircraft which showed minimum sonic boom effect.
*Received the Outstanding Graduate Assistant 2003 Award for this research.

Papers/Seminars:

IPES (2003) presented a paper on Sonic Boom Mitigation: University of Alabama
Seminar on Propulsion System: DY. College of Engineering., Pune, India.

Honors/Activities:

Outstanding Graduate Research Assistant Award,   2003
President: Indian Association of Tuscaloosa,   2003-2004
Public Relations Officer: Crimson Cricket Club,   2002-2003
Most Cooperative and Supportive Passing out Senior,   2000
Class Representative,   1996-1998
Part of Hockey and Badminton team, college and Zonal level, 1996-2000

SHANNON STATHAM

12924 Waterford Woods Circle
Apt. 204
Orlando, FL 32828
407.313.9684, 904.708.1563

3040 Wedgefield Blvd.
Jacksonville, FL 32277
904.744.1500
sstatham05@yahoo.com

OBJECTIVE

To pursue a summer internship in the Mechanical or Aerospace Engineering field.

EDUCATION

8/02 – Current   University of Central Florida   Orlando, Florida
- Major: Aerospace Engineering
- Minor: Mathematics
- Class Standing: Senior
- GPA: 3.9/4.0

8/00 – 5/02   University of North Florida   Jacksonville, Florida
- Associate of Arts Degree

HONORS & AWARDS

Dean's List (GPA : 3.9/4.0)
Florida Merit Scholarship
Central Florida SWE Scholarship (2003)
Boeing Scholarship Fund (2003)

PROJECTS

8/02 – 4/03   Wind Tunnel Project   Orlando, Florida
Motor/Speed Control

The construction of a wind tunnel for the Aerospace Engineering department at the University of Central Florida. Involvement centered on the construction of a compatible system containing a motored fan, shroud, speed control device, and the Diffuser exit.

WORK EXPERIENCE

8/03 – Current   University of Central Florida   Orlando, Florida
Mentor for Engineering Introduction Course
- Conduct Engineering related labs
- Assist students with lab and course material
- Mentor students

4/03 – Current   University of Central Florida   Orlando, Florida
Research Assistant
- Bio-Mechanical Research
- Study materials under dynamic and static loading
- Organize gathered data and analyze results
- Assist Professor and other research assistants

11/02 – 6/03   Mitsubishi Power Systems   Orlando, Florida
Contractor/Intern
- Tracked Gas Turbine Engine components in shop
- Updated tracking documents for components
- Assisted Engineers and Operators

ACTIVITIES

Society of Women Engineers
- Current Student Section Vice President
- Activities and Events Committee Chairperson (2002-2003)

Tau Beta Pi
- Engineering Honor Society

Society of Automotive Engineers
Community Service and Volunteer Activities (200+ hours)

20937 SW 123 Ave   (305) 609-7961
Miami, Fl 33177   jthomas_ucf@yahoo.com

Jennifer Diane Thomas

Objective   To pursue a Co-op or Internship position in the Aerospace Technology field utilizing my knowledge of aviation and my engineering skills.

Education

Aug. 2001-Present University of Central Florida   Orlando, Fl
- Major: Aerospace Engineering
- Anticipated Graduation Date: Dec 2005

Experience

May 2003- Aug. 2003   Honeywell Aerospace   Phoenix, AZ
Control Systems Summer Intern
- Evaluated DOORS 7.0, newer version of requirements software used throughout the company.
- Created DOORS 7.0 training manual.
- Researched requirements for TFE731 engine for updated requirements documents (ARINC coded tables).
- Obtained training in Six Sigma Plus, Green Belt trained.

Nov 2002- Present   UCF Housing and Residence Life Orlando, FL
Resident Assistant
- Facilitate positive living environment for 55 undergraduates in on-campus apartments.
- Plan and Implement educational and social programs.
- Serve as a liaison between students and housing administration.

Honors/Awards

UCF Deans List

Awarded the Florida Bright Futures Scholarship (2001-Present)

Awarded the Boeing Scholarship Fund (2003/2004)

First Place 2002 National SWE Conference: Boeing Team Tech Competition

Affiliations

UCF Society of Women Engineers: Current President, past treasurer, and Competitions chair.

UCF National Society of Black Engineers, Member, past historian.

UCF American Institute of Aeronautics and Astronautics, Member

Volunteer UCF, Member and Active volunteer

Skills

Proficient in Microsoft Office: Word, Excel, PowerPoint, and Access

Skillful in DOORS, AutoCAD and Matlab

Introductory training in ANSYS and CATIA

Passed PAR private pilots flight exam given by the FAA

KEVIN E. WITZBERGER

4709 Cypress Creek Avenue Apartment 211
Tuscaloosa, Alabama 35405
(205) 886-7451
aero5@comcast.net

Objective

To obtain an entry-level position in the aircraft manufacturing industry with an emphasis on aircraft dynamics and controls

Education

Bachelor of Science: Aerospace Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2003
Cumulative GPA 3.780/4.0; Major GPA 3.803/4.0
Coursework: multivariable calculus, vectors and matrices, statics, dynamics, mechanics of materials, fluid mechanics, thermodynamics, aircraft performance, aerodynamics, aircraft structures, dynamics of flight, dynamic systems, propulsion, spacecraft dynamics and controls

Associate in Applied Science: Aircraft Systems Maintenance Technology
Community College of the Air Force, Maxwell Air Force Base,
Montgomery, Alabama
Graduated: February 1999

Experience

Research Assistant, June 2002 – August 2002, University of Alabama
Assisted in conducting frequency and temperature response experiments for shape memory alloys (SMA). Responsible for writing various programs in MATLAB/Simulink.

Aerospace Maintenance Craftsman, October 1990-December 1999
United States Air Force (Honorable Discharge)
Inspected, maintained, operated, troubleshot, and repaired flight control surfaces, aircraft structures, electrical systems, landing gear, cargo doors, fuel, and engine system components for C-5, C-141, C-17 and C-130 aircraft. Performed duties of flight line expediter. Determined work and repair priorities. Scheduled and dispatched technicians. Conducted supervisory follow-up inspections on maintenance actions to ensure quality maintenance.

Computers

C/C++, MS Office, AutoCAD, Windows, FORTRAN, MATLAB/Simulink, Maple, Mathcad

Leadership/Awards

2002 AIAA Junior of the Year, University of Alabama
Tau Beta Pi (National Engineering Honor Society)
President's List, University of Alabama, Spring 2001
Dean's List, University of Alabama, Spring 2000, Fall 2000, Fall 2001, Spring 2002
C-141 aircraft lead technician, October 1997-October 1999
Dean's List, University of Maryland, Term 3, 97-98

Volunteer Activities

Peer educator, Partners in Prevention, University of Alabama, Fall 2001; group focuses on drug and alcohol abuse prevention
Tuscaloosa Children's Center, May 2002; performed administrative duties

Certificates/Licenses

Airframe and Powerplant License, Federal Aviation Administration, Awarded: November 1997

References

Available upon request